

CLAIMS

1. (currently amended) An arrangement for ~~the~~ a tower (3) of a floating wind power station (1) ~~which floats in an essentially vertical position in that the effective centre of gravity of the tower (3) is below the centre of buoyancy of the tower (3), and wherein~~ comprising a machine house (13) including a rotor (15), the machine house being is non-rotationally connected to the tower (3) and ~~the tower (3) is articulatedly connected to the seabed (5);~~
~~e-h-a-r-a-c-t-e-r-i-s-e-d-i-n~~ that the tower (3) is being rotatable about a tower rotational axis (29) in that a lower part (21) of the tower (3) is provided with a swivel joint (27a or 27b) that is designed to essentially absorb vertical tensile forces and wherein the tower is further provided with at least one tension rod and at least one outrigger, the at least one tension rod extending from an upper part of the tower, via the at least one outrigger, to a lower part of the tower.
2. (currently amended) An arrangement according to claim 1;
~~e-h-a-r-a-c-t-e-r-i-s-e-d-i-n~~ that wherein the tower axis of rotation (29) is essentially coincident with the centre axis of the tower (3).
3. (currently amended) An arrangement according to claim 1;
~~e-h-a-r-a-c-t-e-r-i-s-e-d-i-n~~ that wherein the tower axis of rotation (29) is essentially at an angle to the centre axis of the tower (3).
4. (currently amended) An arrangement according to ~~claim 1~~ claim 11;
~~e-h-a-r-a-c-t-e-r-i-s-e-d-i-n~~ that wherein a bearing housing (31) for the swivel joint (27a or 27b) is connected to a tensioned anchor leg (7) via a freely bendable joint (25).
5. (currently amended) An arrangement according to ~~claim 1~~ claim 4;
~~e-h-a-r-a-c-t-e-r-i-s-e-d-i-n~~ that wherein the bearing housing (31) is surrounded by a casing (37) which, together with the swivel joint (27a or 27b) and essentially downward directed seals (34, 39), forms communicating annular spaces (32, 40).

6. (currently amended) An arrangement according to ~~claim 1~~ claim 5,
~~e h a r a c t e r i s e d i n t h a t w h e r e i n~~ the communicating annular spaces (32, 40) are
designed to hold a lubricant enclosed by means of water pressure directed towards the
essentially downward directed seals (34, 39) of the casing (37).
7. (cancelled) ~~An arrangement according to claim 1,~~
~~e h a r a c t e r i s e d i n t h a t t h e t o w e r (3) i s p r o v i d e d w i t h t e n s i o n r o d (s) (61) a n d~~
~~outrigger(s) (63).~~
8. (currently amended) An arrangement according to claim 1;
~~e h a r a c t e r i s e d i n t h a t w h e r e i n t h e a n~~ upper part (9) of the tower (3) is
aerodynamically designed, i.e., with a non-circular cross-section, or provided with
aerodynamic screens (71) preferably partially rotatable about the tower.
9. (currently amended) An arrangement according to ~~one or more of the preceding claims~~
claim 4,
~~e h a r a c t e r i s e d i n t h a t w h e r e i n~~ the tower (3), its lower part (21), the swivel joint
(27a or 27b), the joint (25) and the tension leg (7) are provided with open central passages (51,
53, 55) for the routing of cables.
10. (currently amended) An arrangement according to ~~claim 1~~ claim 11,
~~e h a r a c t e r i s e d i n t h a t w h e r e i n~~ the swivel joint (27a or 27b) is provided with
means for forced rotation of the tower (3).
11. (new) An arrangement according to claim 1 wherein the lower part of the tower is
provided with a swivel joint.
12. (new) An arrangement according to claim 1 wherein the tower is articulately connected to
the seabed or to a tensioned anchor leg.
13. (new) An arrangement according to claim 1 wherein the effective centre of gravity of the
tower is below the centre of buoyancy of the tower.